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## (54) FUEL CELL SYSTEM

## (57) Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell system, which can deal with the sudden increase of a load, small, and easy in constitution.

SOLUTION: An ECU 20, in accordance with the shortage situation of hydrogen needed on the side of a fuel cell main body 30, opens an open/close valve 53 to use hydrogen in a buffering tank 50, or switches a three-way valve 43 to actuate a booster 61 to make the reflux of unconverted hydrogen, or to actuate boosters 62 and 63 to increase introducing pressure. When the temporary increase of necessary hydrogen quantity is needed, practical power generation quantity can be

obtained to the temporary sudden increase of a load, regardless of a small buffer tank 50, by utilizing hydrogen in the tank 50 and the in a pipe.

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